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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 3 of

<i>y</i> / co	omplete if Known
Application Number	10/556833
Filing Date	November 15, 2005
First Named Inventor	CRISTINA GOMILA ET AL.
Group Art Unit	2621
Examiner Name	
Attorney Docket Number	PU040092

	U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.1	Number	nent Code² nown)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US20020034337		SHEKTER	03-21-2002			
		US4935816		FABER	06-19-1990			
		US5140414		MOWRY	08-18-1992			
		US5335013		FABER	08-02-1994			
		US5374954		MOWRY	12-20-1994			
		US5406326		MOWRY	04-11-1995			
		US5471572		BUCHNER ET AL.	11-28-1995			
		US5475425		PRZYBORSKI ET AL.	12-12-1995			
		US5629769		COOKINGHAM ET AL.	05-13-1997			
		US5641596		GRAY ET AL.	06-24-1997			
		US5687011		MOWRY	11-11-1997			
		US5709972		COOKINGHAM ET AL.	01-20-1998			
		US5767860		ZIMMER ET AL.	06-16-1998			
		US5831673		PRZYBORSKI ET AL.	11-03-1998			
		US5457491		MOWRY	10-10-1995			

	FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.1	Office	Foreign Patent Doo Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)		Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
		EP	EP0622000		FABER	10-15-1992		
_		EP	EP1175091		PRZYBORSKI ET AL.	01-23-2002		
		EP	EP1215624		EASTMAN KODAK COMPAN'	06-19-2002		
		wo	WO0146992		BROWN UNIVERSITY RESEA	06-28-2001		
		wo	WO0177871		DEMOGRAFX	10-18-2001		
		wo	WO2004104931		THOMSON LICENSING S.A.	12-02-2004		
		wo	WO9314591		FABER	07-22-1993		
		wo	WO9520292		PRZYBORSKI ET AL.	07-27-1995		
		wo	WO9722204		PRZYBORSKI	06-19-1997		

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INFORMATION DISCLOSURE		Filing Date	November 15, 2005		
STATEMENT BY APPLICANT		First Named Inventor	CRISTINA GOMILA ET AL.		
		Group Art Unit	2621		
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		, AL-SHAYKH ET AL, "Lossy Compression of Images Corrupted by Film Grain Noise," School of Electrical and Computer Engineering, 1996 IEEE.	
		, AL-SHAYKH ET AL, "Restoration of Lossy Compressed Noisy Images," IEEE Transactions on Image Processing, Vol. 8, No. 10, October 1999.	
		, AL-SHAYKH, "Lossy Compression of Noisy Images," IEEE Transactions on Image Processing, Vol. 7, No. 12, December 1998.	
		, BRIGHTWELL ET AL, "Automated Correction of Film Unsteadiness, Dirt and Grain," International Broadcasting Convention, September 16-20, 1994, Conference Publication No. 397, IEE, 1994.	
		, CAMPISI ET AL, "Signal-Dependent Film Grain Noise Generation Using Homomorphic Adaptive Filtering," IEE Proceedings, Image Signal Process, Vol. 147, No. 3, June 2000.	
"		, ZHAO ET AL, "Constant Quality Rate Control for Streaming MPEG-4 Fgs. Video," Integrated Media Systems Center and Department of Electrical Engineering, University of Southern California, 2000 IEEE.	
		, CHAVEL ET AL, "Film Grain Noise in Partially Coherent Imaging," Optical Engineering, Vol. 19, No. 3, May- June 1980.	
		, FISCHER ET AL, "Image Sharpening Using Permutation Weighted Medians," Department of Electrical Engineering, University of Delaware, fischer@ee.udel.edu, paredesj@ee.udel.edu, arce@ee.udel.edu.	
		, ILLINGWORTH ET AL, "Vision, Image and Signal Processing," The Institution of Electrical Engineers, IEE Proceedings, June 2000, Vol. 147, No. 3.	
		, MCLEAN ET AL, "Telecine Noise Reduction," XP-002285972, 2001 The Institute of Electrical Engineers.	
		, OKTEM ET AL, "Transform Domain Algorithm for Reducing Effect of Film-Grain Noise in Image Compression," Electronics Letters, October 14, 1999, Vol. 35, No. 21.	

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INFO	PRMATIC	)N D	ISCLOSURE	Filing Date	November 15, 2005
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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		, PRADES-NEBOT ET AL, "Rate Control for Fully Fine-Grained Scalable Video Coders," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002), SPIE 0277-786X/02.	ļ
		, SCHAAR ET AL, "Fine-Granularity-Scalability for Wireless Video and Scalable Storage," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002) SPIE 0277-786X/02.	
		, SHAHNAZ ET AL, "Image Compression in Signal-Dependent Noise," Applied Optics, Vol. 38, No. 26, September 10, 1999.	
		, YAN ET AL, "Efficient Video Coding with Hybrid Spatial and Fine-Grain SNR Scalabilities," Department of Electronic Engineering, Beijing Institute of Technology, China.	
		, YAN ET AL, "Film Grain Noise Removal and Generation for Color Images," Department Electrical and Computer Engineers, University of Toronto, dimitris@comm.toronto.edu.	
		, YAN ET AL, "Signal-Dependent Film Grain Noise Removal and Generation Based on Higher-Order Statistics," University of Toronto, Department of Electrical and Computer Engineering, dimitris@comm.toronto.edu, 1997 IEEE.	
		, YOSHIDA, "Go with the Grain, Film R&D Chief Urges, for Art's Sake," EE Times, February 07, 2005.	
		, ZHANG ET AL, "Constant Quality Constrained Rate Allocation for FGS Video Coded Bitstreams," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002) SPIE 0277-786X/02.	
		PENG ET AL, "Adaptive Frequency Weighting for Fine-Granularity-Scalability," Visual Communications and Image Processing 2002, Proceedings of SPIE, Vol. 4671 (2002) SPIE 0277-786X/02, pp. 840-849.	
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